

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Wednesday, April 24, 2019
WELL WORK PLUGGING PERMIT
Vertical Plugging

ROSS AND WHARTON GAS COMPANY, INC. RT. 5, BOX 29

BUCKHANNON, WV 262010000

Re:

Permit approval for 4 47-041-02131-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: 4

Farm Name: BARBAROW, NELLIE

U.S. WELL NUMBER: 47-041-02131-00-00

Vertical Plugging
Date Issued: 4/24/2019

#### **PERMIT CONDITIONS**

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

#### **CONDITIONS**

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Dat	Febru	04/2	6/201	S		
2) Ope						
Wel	No.	Nellie B	arbarrow #4			
3)API	Well	No.	47-041	- 02131		
3)API	Well	No.	47-041	- 02131		

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

Loca	ation: El	evation 1143'	Watershed Little (	Cove Creek	
		strict Freemans Creek	County Lewis		
Well	Operator	Ross & Wharton Gas Co. Inc.	7)Designated A	gent Mike Ross	
		354 Morton Ave.	Address P.O. Box 219		
		Buckhannon, WV 26201		Coalton, WV 26257	
Oil	and Gas I	nspector to be notified	9)Plugging Cont	tractor	
Ŋ	Name Barry S	tollings	Name N/A		
I	Address 28 (	Conifer Dr.	Address		
	Brid	geport, WV 26330			
Free	point an	The work order for the mann d recover casing's & tubu		GEL,	
Free 6% G Set o	point and lel betwee cement p	d recover casing's & tubo n plug's lug 2000' to TD (2552')	ular's Seot Plug 100' abov	Office of Or and Gas ve top perfAR 4 2019	
Free 6% G Set of Set 1	point and el betwee cement p 00' ceme	d recover casing's & tubo n plug's	ular's Seot Plug 100' abou ut	Office of Or and Gas  ve top performent of Systems of Protection	
Free 6% G Set of Set of Set of	point and el betwee cement p 00' ceme cement pl	d recover casing's & tubun plug's lug 2000' to TD (2552') ent plug across casing culug 1600' to 1700' (Lime, lug 1100' to 1200' elevat	ular's Seor Plug 100' abou ut Blue Monday) tion plug	Office of Or and Gas  ve top performent of Systems of S	

work can commence.

Work order approved by inspector

Barry Stollerge Date 2-26-19

OG-10 Rev. - 9-71



#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

# 04/26/2019

SEP 3 0 1977

ON A GAS DIVISION

#### Oil and Gas Division

#### WELL **RECORD**

Quadra	ngle_	Vadis 7%
Permit	No	Lew-2131

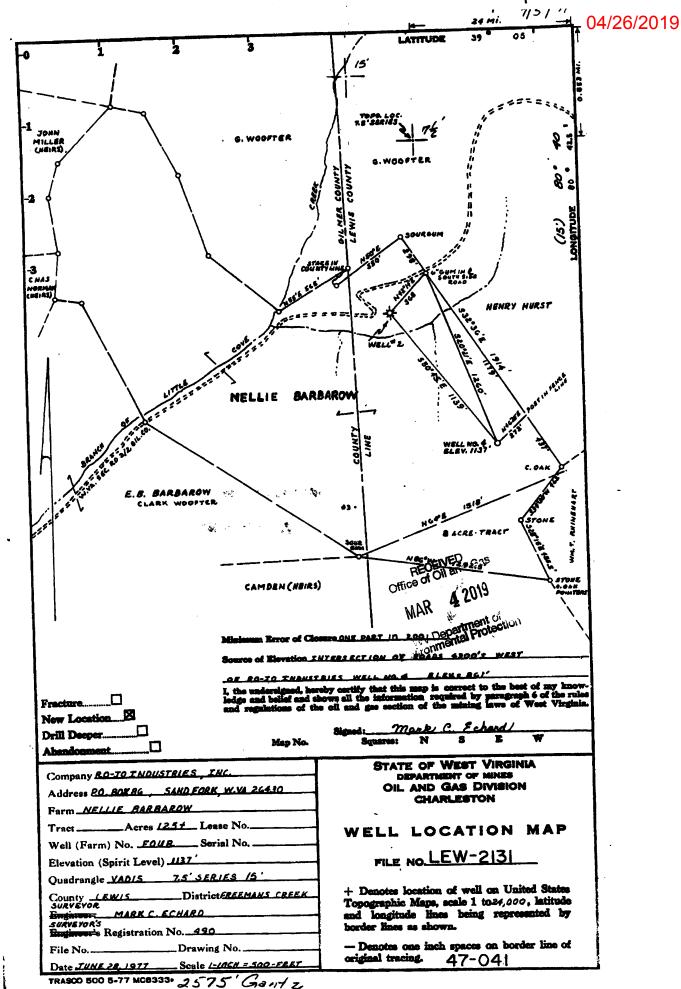
Rotary_X	Oil
Cable	Oil
Recycling	Comb
Water Flood	Storage
Disposal	

Permit No. Lew-2131			Disposal	d Storage
Company Ro Jo Industries, Inc.	Casing and	Used in	Left	Compant 511
Address Glenville W. Va.	•		i	Cement fill up
Farm Nellie Barbarow Acres 125	Tubing	Drilling	in Well	Cu. ft. (Sks.)
Farm.         Nellie Barbarow         Acres         125           Location (waters)         Little Cove Creek           Well No.         4         Elev. 1143 KB	Size			İ
Well No. 4 Eley, 1143 KB	20-16			}
District Freemans Creek County Lewis	Cond.	}		
The surface of tract is owned in fee by	13-10"		<del> </del>	1
	9 5/8		<b></b>	İ
Address Little Cove Creek	8 5/8	241	251	to surface
Mineral rights are owned by	7		<del>                                     </del>	
Address	5 1/2			
Drilling Commenced 8/1/77	4 1/2	2537	2537	150 sks.
Drilling Completed 8/7/77	3		1 2007	IJU SKS.
Initial open flow 90 mcf cu. ft. 0 bbls.	2		1	
Initial open flow 90 mcf cu. ft. 0 bbls.  Final production 3,900mmcffft. per day show bbls.	Liners Used			
Well open hrs. before test 845 RP.				
Well treatment details:	Attach copy of c	ementing rea	ard .	
Well Frac 8-23-77	towns topy of c	onoming reci	nu.	
Perforations 2142 to 2186 , 12 he	oles			
841 Bls of water				
1587 HHP				
35 BPN at 1850 1b				
500 gal of 15 % acid	· · · · · · · · · · · · · · · · · · ·			
Coal was encountered at No Fee	1	Inche	s	
Fresh water 90 Feet	0 1. 11			Feet
Producing Sand Big Injun	Depth	2142		
	Depth			

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Soil	0	15	Office of Oil and Gas
Sand	15	200	RECON AND
Shale, Sand, Red Rock	200	1514	Office Of Cond
Sand	1514	1620	Office of Co. 4 2019  MAR 4 2019  WY Department Pro
Shale	1620	1664	MAR
Sand	1664	1698	Wir. A ment
Shale	1698	1730	Caparin Pro
Sand	1730	1780	W Donatian
Shale	1780	1960	E. Witoin.
Limestone	1960	1970	-
Shale	1970	1980	
Limestone	1980	2030	
Sand	2030	2040	
Limestone	2040	2140	
Dolomite, sandy	2140	2196	
Siltstone & Shale	2196	2354	
Shale	2354		
Gantz	2446	2446 2453	
Shale	2453	2552	
	2433		<b>.</b>
		2552	Total Depth

<sup>\*</sup> Indicates Electric Log tops in the remarks section.

(over)



WW-4A Revised 6-07

1) Date:	February 4,2019				
2) Operator's	s Well Numb	er			
			生。1		
-Warder-West #1- N	lellie Bar	barrow	4		
3) API Well N		041		02131	

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

(a) Name			Name			
Address	11 Lomax Lane	/	Address	V. T.		
	Elkview, WV 25071					
(b) Name			(b) Coal Or	wner(s) with Decla	ration	
Address			Name	N/A		
			Address			
/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			N			
(c) Name	1		Name	1		
Address			Address	-		
Inspector	Barry Stollings		(c) Coal Le	ssee with Declarat	ion	
Address	28 Conifer Dr.		Name	N/A	20.77	
The state of the state of	Bridgeport, WV 26330		Address			
Telephone	304-552-4194			-		
				-		
well (2) The	application to Plug and its and the plugging wor plat (surveyor's map) sho	k order; and owing the well locat	ion on Form WW-6.			
well (2) The The reason However, Take notic accompany Protection the Applic certain circ	its and the plugging wor	k order; and owing the well location into is that you have ri- iny action at all.  If the West Virginia Co- to plug and abandon a the location described on mailed by registered	ion on Form WW-6.  Ights regarding the applied, the undersigned well with the Chief of the on the attached Applicated or certified mail or de-	cation which are summari operator proposes to file the Office of Oil and Gas, V ion and depicted on the at	zed in the instruct or has filed this Novest Virginia Dep tached Form WW- erson(s) named ab	tions on the reverses side of the second application are partment of Environment -6. Copies of this Notice ove (or by publication
well (2) The The reason However, Take notic accompany Protection the Applic certain circ	its and the plugging wor plat (surveyor's map) shown you received these docume you are not required to take a see that under Chapter 22-6 of ying documents for a permit, with respect to the well at the cation, and the plat have becomes the pl	k order; and owing the well location that you have rist is that you have rist in a color at all.  If the West Virginia Cotto plug and abandon a helocation described to mailed by registered day of mailing or delivered.	ion on Form WW-6.  Ights regarding the appliance of the undersigned well with the Chief of the attached Applicated or certified mail or devery to the Chief.	cation which are summari l operator proposes to file the Office of Oil and Gas, value and depicted on the at elivered by hand to the pe	zed in the instruct or has filed this Novest Virginia Dep tached Form WW- erson(s) named ab	tions on the reverses sid lotice and Application ar partment of Environment -6. Copies of this Notic
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Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at <a href="mailto:depprivacyoffier@wv.gov">depprivacyoffier@wv.gov</a>.

WW-9 (5/16) 47-041-02131 P 04/26/2019

API Number 47 - 041	_02131
Operator's Well No.	

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Ross & Wharton Gas Co. Inc.	OP Code 306580
Watershed (HUC 10) Little Cove Creek	Quadrangle Vadis
Do you anticipate using more than 5,000 bbls of wat	er to complete the proposed well work? Yes No
Will a pit be used? Yes No	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Ye	s No If so, what ml.?
Proposed Disposal Method For Treated Pit	Wastes:
Land Application (if selec	cted provide a completed form WW-9-GPP)
Underground Injection (	UIC Permit Number)
Reuse (at API NumberOff Site Disposal (Supply	form WW-9 for disposal location)
Will closed loop systembe used? If so, describe:	
Drilling medium anticipated for this well (vertical ar	nd horizontal)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petrolet	um, etc
Additives to be used in drilling medium?	
Drill cuttings disposal method? Leave in pit, landfill.	, removed offsite, etc.
-If left in pit and plan to solidify what media	m will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number?	MAR 4 2019
	f Oil and Cas of any load of drill cuttings or associated waste rejected at a provided within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of th provisions of the permit are enforceable by law. Viol or regulation can lead to enforcement action. I certify under penalty of law that I have application form and all attachments thereto and that	terms and conditions of the GENERAL WATER POLLUTION PERMIT issued to West Virginia Department of Environmental Protection. I understand that the lations of any term or condition of the general permit and/or other applicable law personally examined and am familiar with the information submitted on this, based on my inquiry of those individuals immediately responsible for obtaining the accurate, and complete. I am aware that there are significant penalties for yof fine or imprisonment.
Subscribed and swom before me this 449	day of February . 20 19 Notan Public Official SEAL
My commission expires September an,	NOLATE ADDIC OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA BRENDA K BUSH 20 GUM STREET BUCKHANNON, WV 26201 My Commission Expires September 27, 2020

Field Reviewed?

Proposed Revegetation Treat	4	20ro	6.5
			1рН 6.5
Lime 2	Tons/acre or to correct	t to pH 6.5	
Fertilizer type 10-2	20-20		
Fertilizer amount_5	00	lbs/acre	
Mulch_ Hay		_Tons/acre	
		Seed Mixtures	
Te	emporary	Per	manent
Seed Type	lbs/acre	Seed Type	lbs/acre
Fescue	30	Fescue	30
Contractors Mix		Contractors Mix	
	the land application area.		
Photocopied section of invol-			
	lved 7.5' topographic sheet.		WED; cas
Plan Approved by:	lved 7.5' topographic sheet.	RECE	MED Gas
	lved 7.5' topographic sheet.	Office of C	4 2019
Plan Approved by:	lved 7.5' topographic sheet.	Office of C	4 2019
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WW-9- GPP Rev. 5/16

Page	l of 2
API Number 47 - 041	- 02131
Operator's Well No.	

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

GROUNDWATER PROTECTION PLAN

Operator Name: Ross & Wharton Gas Co. Inc.	
Watershed (HUC 10): Little Cove Creek	Quad: Vadis
Farm Name:	
<ol> <li>List the procedures used for the treatment and d groundwater.</li> </ol>	ischarge of fluids. Include a list of all operations that could contaminate the
N/A	
Describe procedures and equipment used to prote	ect groundwater quality from the list of potential contaminant sources above.
N/A	
3. List the closest water body, distance to closest discharge area.	water body, and distance from closest Well Head Protection Area to the
Little Cove Creek	Office of Oil and Gas
	MAR 4 2019  WV Department of Environmental Protection
Summarize all activities at your facility that are a	already regulated for groundwater protection.
N/A	

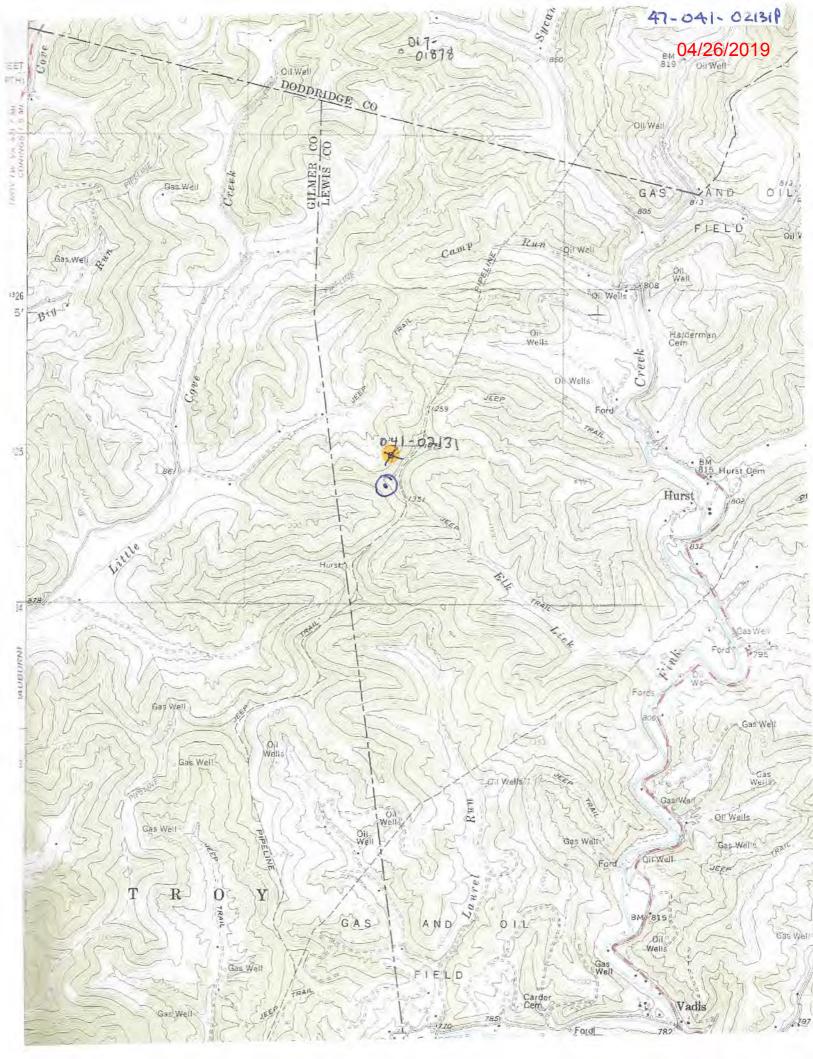
5. Discuss any existing groundwater quality data for your facility or an adjacent property.

W	W	-9-	GPP
Re	v.	5/1	6

Date: February 4, 2019

Page	2 of 2
API Number 47 - 041	- 02131
Operator's Well No.	

4.4	
scribe the groundwater protection instruction and training to be provided to vide direction on how to prevent groundwater contamination.	
scribe the groundwater protection instruction and training to be provided to vide direction on how to prevent groundwater contamination.	
scribe the groundwater protection instruction and training to be provided to vide direction on how to prevent groundwater contamination.	
scribe the groundwater protection instruction and training to be provided to vide direction on how to prevent groundwater contamination.	o the employees. Job procedures shall
vide direction on how to prevent groundwater contamination.	o the employees. Job procedures shall
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	INR 4 ZUIS
	W Department Charles Protection
Eur	m
vide provisions and frequency for inspections of all GPP elements and equipn	ment.



WW-7 8-30-06



### West Virginia Department of Environmental Protection Office of Oil and Gas

### WELL LOCATION FORM: GPS

<sub>API:</sub> 47-041-02131	WELL N	0.:4
FARM NAME: Nellie Bark	barrow	
RESPONSIBLE PARTY NAME		
	DISTRICT:	Freemans Creek
QUADRANGLE: Vadis		
SURFACE OWNER: Lois E	. Bode et.al.	
ROYALTY OWNER: Donal		
UTM GPS NORTHING: 4325		.9
UTM GPS EASTING: 52365	5.3 523914.4 CPS FLE	VATION: 1143'
above well. The Office of Oil and the following requirements:  1. Datum: NAD 1983, Zon height above mean sea  2. Accuracy to Datum – 3  3. Data Collection Method Survey grade GPS : Post I	ne: 17 North, Coordinate Uni level (MSL) – meters. .05 meters d:	Office of Oil and Gitters to: meters, Althorne:  WAY Department of Environmental Protection
	Time Differential	•
Mapping Grade GPS: Po	est Processed Differential	
Re	eal-Time Differential	- 110
4. Letter size copy of the I the undersigned, hereby certify the belief and shows all the information prescribed by the Office of Oil and	n required by law and the reg	of my knowledge and
Tuke Koss	President	Feb. 4, 2019
Signature	Title	Date